

Applicant: Elliott *et al.*
For: PREDICTIVE ALGORITHMIC MODEL

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ABSTRACT OF DISCLOSURE

A predictive modeling algorithm for deriving the outcome of UV photochemical reactions. The model is created in three sections: A parameter input section, a calculation section, and an output section. Input parameters are loaded into the model, calculations are made automatically by the algorithm, and output numbers given which constitute a theoretical test result. The model is adaptable in that it provides for various wavelengths and levels of input energy, a wide variety of reactive chemical components, and many different surface types. An extensive range of photochemical experiments can be modeled with a simple PC-type computer and commercially available software. This predictive model is designed to simulate real reactions as done in a lab, but many times faster and cheaper.

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